

ABSTRACT

The titanium oxide-organic polymer composite material for artificial bone obtained by forming titania gel on the surface of said base material by titania solution treatment to dip into a solution of 0°C to 50°C temperature for from several seconds to 1 week obtained by adding a solution consisting of acidic alcohol and water into alcohol solution of titaniumtetraalcoxide to a base material composed of a polymer compound selected from a group consisting of polyolefin, polyester and nylon, and modifying to a titanium oxide membrane which forms apatite having similar Ca/P atom ratio to an apatite of mammalian's bone in supersaturated aqueous solution to apatite or from a body fluid of mammalian by dipping said base material on the surface of which titania gel is formed into hot water of 50°C to 95°C or solution of room temperature to 95°C to which acid is added.